

Product



Unique Selling Points

- ✓ **The world's best sealed gripper**
- ✓ **The first gripper with a long life warranty**
- ✓ Sealed centric gripper with integrated multitooth guide with high process reliability
- ✓ Lip seal on the outer circular guide provides permanently secure sealing
- ✓ Protection class (tightness) IP 67
- ✓ Ground base jaws on the base body. Manual operation gives best possible result.
- ✓ Power supply via hose-free direct connection or connected with screws
- ✓ Robustness and dirt resistance permit universal application
- ✓ The gripper for difficult tasks, above all for challenging ambient conditions



Technical Data / Functions

Sizes

40 - 200

Weight

0.62 kg - 20.1 kg

Gripping force

230 N - 17.150 N

Stroke per finger

2.5 mm - 25 mm

Workpiece weight, force-fit gripping

2.6 kg - 60 kg

Optional compatibility with PZN-plus

Further options

- ✓ ATEX variant (gripper version for explosive environments. The gripper is provided with a conductive surface coating. This allows electrical voltages created by friction to be grounded. The risk of discharging sparks is thereby eliminated, and explosive atmospheres cannot be ignited.)
- ✓ Precision versions
- ✓ KVZ variant increases the gripping force when opening and closing

Cost Effectiveness/ Customer Benefits

- ✓ Robust multi-tooth guide, ensures maximum process reliability ("Automotive Proven").
- ✓ Above-average gripping force, means smaller gripper size is possible.
- ✓ High payload, permits use of longer gripper fingers.
- ✓ Compact design, permits optimized system design.
- ✓ Complementary sensor accessories, permit synchronous function monitoring.
- ✓ Maximum repeat accuracy, and therefore reliable processes.
- ✓ Long-life warranty ensures low total cost of ownership – lower costs over the life span.

Price from 598 euros to 2,184 euros

Questions about the product? Your contact person is Marcel Nagel (+49 - 7133 - 103 - 2561)



Market and competitors

Main competitors

- ✓ Sommer: GD1700-B

Advantages over the competitors

- ✓ Greater permissible finger length due to extended housing and multi-tooth guide.
- ✓ Higher permissible moments M_x and M_y (M_z the same as with DPZ) due to extended housing and multi-tooth guide.

Optimized monitoring

- ✓ Piston stroke monitoring with magnetic switches and inductive proximity switches.

Stepped adapter plates are no longer required formounting versions with gripping forcemaintenance.

Line of Argument

- ✓ Speak to the customer specifically about system downtimes. Due to the robust multitoothguide, our grippers have fewer malfunctions.
 - Less system downtime
 - More productivity
- ✓ Tell the customer about our broad range options. None of the competitors can match that! Every customer receives a customized DPZ-plus!
- ✓ Promote the long-life warranty. It is the only one of its kind on the market. Lower total cost of ownership!

Storytelling

- ✓ The company Müller-Weingarten is renowned for its innovative forging technologies. When it comes to handling red-hot camshaft blanks they depend on our DPZ-plus. The grippers are provided with the ideal heat protective sleeves and can therefore withstand even the severest ambient conditions.

Industries and Applications

The DPZ-plus is very suitable for handling rough and dirty workpieces.

DPZ-plus performs particularly well in the following industries:

- ✓ Foundry
- ✓ Automotive
- ✓ Surface treatment systems

Applications

- ✓ Immersing warm cast-iron parts in cold water
- ✓ Handling milled parts
- ✓ Automated loading of powder coating systems
- ✓ Loading and unloading of machine tools with a high occurrence of chips and cooling lubricant.

Functional principal and advantages of the multi-tooth guide



1.) The load is carried on several shoulders. Unlike classic T-slot guides, which have 2 loadbearing shoulders, the multi-tooth guide has 6 shoulders. This increases the total bearingsurface so that the gripper can carry greater loads.

2.) More power: The large space between the multi-tooth guides allows for a particularly strong diagonal pull. This guarantees that the force of the powerful oval piston is exerted to the fullest extent while limiting wear and damage.

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